

HARDWARE ENGINEER

Salary	£25,000 - £40,000/annum (dependent on experience), pension Annual leave: 21 days plus bank holidays.
Location	Chesham, Buckinghamshire
Company	SHJ Medical Gas Specialists is a leading supplier of medical gas pipelines, solutions and services, and a market leader in remote monitoring and energy saving technologies. We are committed to the highest standards of care and support for our customers and invest heavily in R&D to remain at the forefront of our industry.
Job description	<p>The purpose of this role is to design, prototype, scale and roll out IoT and intelligent solutions to control medical gas plant and components which deliver value through conversion cost reduction, energy saving, service enhancement, predictive maintenance and improvements in health and safety.</p> <p>The role will also support current research and development on building modern SCADA IoT networks coupled with emerging technologies such as Artificial Intelligence (AI) and Blockchain resistant to modification of the data, resulting in improved efficiency, accuracy and economic benefit in addition to reduced human intervention.</p>
Key duties	<ul style="list-style-type: none">• Design, install and commission new IoT and automation solutions, integrating as appropriate into the existing infrastructure, with full consideration given to data integration requirements.• Identification of appropriate devices and instrumentation to enable continuous monitoring of core automation processes, enabling improvements in conversion cost and lead time.• Utilise innovative and creative thinking to establish new value-adding opportunities for the process control and monitoring of medical gas plant.• Lead engineering design efforts during the R&D phase of IoT and automation projects and work with cross-functional teams and third party vendors to design, fabricate and test design prototypes. Ensure end to end solutions are functional, secure and easy to use.• Manage technical vendors, partners and sub-contractors on related projects.• Create test plans and perform user acceptance testing to ensure the integrity and scalability of IoT and automation solutions.• Liaise with central and local procurement teams to ensure all project hardware and software purchases are managed within industrial procurement policy.• Compile high-quality technical and end user documentation for delivered IoT and automation solutions.• Train and mentor local engineering and operations teams to support the operation of IoT and automation solutions in hospitals.
Experience required	To be considered for this role you will have a bachelor's degree in engineering with a focus on electronics, or relevant apprenticeship training. You will have a minimum of 3-

5 years “hands-on” experience working with automation and IoT solutions in a fast-paced industrial environment.

Fellowship or chartered membership of an industry-related professional body would be an advantage.

Key Skills

- Strong electrical engineering knowledge and the capability to read and modify electrical drawings.
- Experience of working with different PLC and SCADA systems.
- Electronic design skills (analogue and digital circuit design).
- Knowledge of network infrastructure and cloud computing.
- Excellent critical thinking, analytical and problem-solving abilities. Using mathematics to solve problems.
- Excellent communication, interpersonal, negotiating and influencing skills.
- Project management experience.

Key Attributes

- Results-orientated with the ability to plan and deliver against project deadlines.
- Self-motivated, with excellent time management skills and the ability to work well under pressure.
- Resilient, self-aware, optimistic and open to change.
- Confident, assertive and self-assured.

Contact

Please contact Yingying Scopes on 01494 782168 for more details.